Meet your Professor

Jamy Chulak, M.S., RRT
Valencia College
1800 South Kirkman Road 4-44
AHS Building Room 235
phone: 407-582-5477
fax: 407-582-1984
jchulak@valenciacollege.edu

Office Hours

<table>
<thead>
<tr>
<th>Location</th>
<th>DAY</th>
<th>FROM (am/pm)</th>
<th>TO (am/pm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS 235 or AHS 226</td>
<td>Monday</td>
<td>8:00 AM</td>
<td>9:00 AM</td>
</tr>
<tr>
<td>AHS 235 or AHS 226</td>
<td>Tuesday</td>
<td>8:00 AM</td>
<td>12:00 PM</td>
</tr>
<tr>
<td>AHS 235 or AHS 226</td>
<td>Wednesday</td>
<td>8:00 AM</td>
<td>9:00 AM</td>
</tr>
<tr>
<td>AHS 235 or AHS 226</td>
<td>Thursday</td>
<td>8:00 AM</td>
<td>9:00 AM</td>
</tr>
<tr>
<td>AHS 235 or AHS 226</td>
<td>Friday</td>
<td>8:00 AM</td>
<td>11:00 AM</td>
</tr>
</tbody>
</table>

Classroom Location, Day, & Time

Allied Health Science Building (AHS)

Thursday
Room 230
9:00am-2:50pm

Introduction to the Course

Course emphasis on the functions of the cardiopulmonary system as it relates to ventilation, regulation of breathing, respirations, gas exchange and delivery. We introduce common factors effecting oxygen and carbon dioxide transport. An emphasis on the cardiovascular system and cellular respiration compared to the manifestations of disease and blood gas analysis.
Textbooks

ISBN: 9780840022585
Cardiopulmonary Anatomy & Physiology, Des Jardin, 6th Edition

Valencia College Core Competencies

The Valencia Student Core Competencies (Think, Value, Act and Communicate) are an established component of the College’s curriculum development and review process. A detailed overview can be found in the current Valencia catalogue or the Valencia Website: http://valenciacollege.edu/competencies/. Developing these core competencies will be enhanced through critical thinking exercises, classroom discussions, and reasoned choices made by acquiring, analyzing, synthesizing, and evaluating knowledge. You will also need to read, listen, write and speak effectively.

Overall Course objectives/Outcomes
- The student will be able to describe the cardiopulmonary anatomy and physiology of patients.
- The student will be able to measure cardiopulmonary status of patients.
- The student will be able to evaluate the proper treatment for patients as it relates to their cardiopulmonary status.

Important Dates

Term (Start and End Dates) January 12th 2015-May 5th, 2015
Withdrawal for “W” Grade March 27th, 2015
Final Examination April 27th, 2015
Classes Do Not Meet January 19th and March 9th - 15th

Withdrawal Policy

Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the established deadline for a particular term will receive a grade of “W.” A student is not permitted to withdraw after the withdrawal deadline. A faculty member MAY withdraw a student up to the beginning of the final exam period for violation of the class attendance policy. A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of “W.” Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of “F.” For a complete policy and procedure overview on Valencia Policy 4-07 please go to: http://valenciacollege.edu/generalcounsel/policy/default.cfm?policyID=75&volumeID_1=4&pcdure=0&navst=0
Students with Disabilities

Student’s with disabilities who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities and discuss specific needs with the professor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities. (West Campus SSB room 102, 407-582-1523)

Academic Honesty

Students are expected to be in complete compliance with Valencia College policy on academic honesty. This policy is written in the Valencia College Catalog and Student Handbook. Academic honesty, in terms of documentation, means that you have not stolen another's ideas and misrepresented them as your own; you have given credit where credit is due. As in most areas of life, let common sense and common courtesy rule and help keep you from inadvertently committing an act of plagiarism.

Atlas

Students will need to check their Atlas account daily for email, helpful hints and updated information. [https://atlas.valenciacollege.edu](https://atlas.valenciacollege.edu)

Blackboard

This course is web-enhanced. The student will be required to complete assignments, quizzes and participate in discussion topics online. Any problems or questions must be communicated to the instructor in a timely manner. [https://online.valenciacollege.edu](https://online.valenciacollege.edu)

Course Disclaimer

These course requirements may be changed with notification, as deemed necessary by the instructor due to unforeseen circumstances.

Grading Considerations

- All late assignments will result in an automatic grade reduction of 10%.
- No assignment or test will be accepted after one week past the due date.
- Late assignments may be emailed to jchulak@valenciacollege.edu if blackboard submission has been disabled. Acceptance of late assignments is not guaranteed.
- Quizzes and online discussions may NOT be made up beyond the due date.

Final Note:

Each of you may learn at different levels and at a different pace. The following study habit(s) will increase your likely hood of success.
- Read the textbook material before the scheduled class.
- Actively participate in classroom lectures and discussions over the chapter material.
- Answer review questions at the end of each chapter.
- Read and discuss case studies presented at the end of selected chapters.
- Review quizzes (live or online) prior to examination(s).
Grading Considerations

- All late assignments will result in an automatic grade reduction of 10%.
- No assignment or test will be accepted after one week past the due date.
- Late assignments may be emailed to jchulak@valenciacollege.edu if blackboard submission has been disabled. Acceptance of late assignments is not guaranteed.
- Quizzes and online discussions may NOT be made up beyond the due date.
- Three or more absences will result in a letter grade reduction on the final grade.

Grading Scale

A= 90-100
B= 83-89
C= 75-82
D= 70-74
F= Less than 70%

Note: A minimum grade of “C” is required if used to satisfy Radiologic and Imaging Sciences B.S. degree requirements.

Grade Breakdown

5%- Attendance

Attendance is essential to success in this course. Absences or failure to do the assigned reading will result in difficulty mastering the material. It will be assumed by the instructor that all assigned material has been read prior to scheduled class time. Excessive absences may result in withdrawal from the course and is defined in the student handbook as greater than two absences within a semester.

10%- Assignments

To be distributed weekly or as needed

15%- Quiz: (will be averaged towards final grade)

Quizzes may or may not be announced. Quizzes will be given at the beginning of class and online. The content of each may include assigned reading material and/or previously covered material. Each quiz will be timed.
5%- Class Participation

<table>
<thead>
<tr>
<th></th>
<th>Never</th>
<th>Seldom</th>
<th>Sometimes</th>
<th>Often</th>
<th>Always</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engages in class or lab conversation</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Utilizes Office Hours and email with faculty</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Demonstrates appropriate communication with peers and faculty</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Attentive during class or lab</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

Absences or failure to do the assigned reading will result in difficulty mastering the material. It will be assumed by the instructor that all assigned material has been read prior to scheduled class time.

60%- Examinations: (will be averaged towards final grade)
Formats may be multiple choice, short answer or essay. Content will include assigned reading material, handouts and/or lecture material. Calculators may be used. No scientific calculators or those capable of storing formulas can be used.

Final Exam worth 15%  
This is a cumulative exam. Format may be multiple choice, short answer or essay. See Valencia catalogue for dates and times.
Course Itinerary

Week 1  The Anatomy and Physiology of the Respiratory System  
-Des Jardin chapter 1

Week 2  Ventilation  
-Des Jardin chapter 2
Examination #1

Week 3  Diffusion of Pulmonary Gases  
-Des Jardin chapter 4

Week 4  The Anatomy and Physiology of the Circulatory System  
-Des Jardin chapter 5
Examination #2

Week 5  Oxygen Transport & Carbon Dioxide Transport  
-Des Jardin chapter 6

Week 6  Acid-Base Balance and Regulation  
-Des Jardin chapter 7
Examination #3

Week 7  Ventilation-Perfusion Relationship  
-Des Jardin chapter 8

Week 8  Control of Ventilation  
-Des Jardin chapter 9
Examination #4

Week 9  Spring Break

Week 10  Fetal Development and the Cardiopulmonary System  
-Des Jardin chapter 10

Week 11  Aging and the Cardiopulmonary System  
-Des Jardin chapter 11
Examination #5

Week 12  Electrophysiology of the Heart  
-Des Jardin chapter 12

Week 13  The Standard 12-lead ECG  
-Des Jardin chapter

Week 14  ECG Interpretation  
-Des Jardin chapter 14
Examination #6

Week 15  Hemodynamic Monitoring  
-Des Jardin chapter 15

Week 16  Final Examination